

CF40 Cryo-compact circulator

The cryo-compact circulators of the CF series provide powerful cooling and heating capabilities in a space-saving, compact design. The instruments feature 2 kW heating capacity and classification III according to DIN 12876-1. The cryo-compact circulators have pump connections for external temperature control applications and a bath opening for temperature control of small objects.

Product features

- Ergonomic design and easy operation
- Small overall dimensions for lowest space requirement
- Splash-proof keypad
- Large, bright LED display
- Precise PID temperature control
- RS232 interface for PC connection
- Adjustable high temperature cut-out, visible via display
- Pump connections for external temperature applications
- Bath opening for temperature control of small objects in the bath
- Front drain
- Extra bright displays, easy to read from a distance
- Precise temperature control
- Unique early warning system for low liquid level
- ATC3 3-Point-Calibration
- Class III (FL) according to DIN 12876-1

Performance values

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)				
Heating capacity kW	2			
Viscosity max. cSt	30			
Pump capacity flow rate l/min	15			
Pump capacity flow pressure bar	0.35			
Power consumption A	12			





Order No.		9400340.03				
Cooling capacity (Ethanol)						
°C	20	0	-20	-30		
kW ¹	0.47	0.4	0.28	0.12		
Refrigerant stage 1						
Refrigerant	R452A					
Filling weight g	170					
Global Warming Potential for R452A	2140					
Carbon dioxide equivalent t	0.3638					

¹ Performance specifications measured in accordance with DIN 12876. Cooling capacities up to 20 °C measured with ethanol; over 20 °C with thermal oil unless otherwise specified. Performance specifications apply at an ambient temperature of 20 °C. Performance values may differ with other bath fluids.

Technical data

Available voltage v	versions		Cooling		
Order No.	9 400 340		Cooling of compressor	1-stage Air	
Available voltage versions:					
9400340.13 230V/60Hz (Nema N6-20 Plug) (R449A)					
9400340.02	115V/60Hz (Nema N5-15 Plug) (R449A)				
9400340.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R452A)				
9400340.04	230V/50Hz (UK Plug Type BS1363A) (R452A)				
Bath			Other		
Bath tank		Stainless steel	Classification	Classification III (FL)	
Bath cover		integrated	IP Code	IP 21	
Usable bath opening cr	m (W x L / D)	19 x 3 / 19	Pump type	Immersion Pump	
Electronics			Dimensions and volumes		
Temperature control		PID1	Weight kg	44	
Temperature display		LED	Barbed fittings inner diameter mm	8/12 mm	
			Dimensions cm (W \times L \times H)	28 x 46 x 46	
			Filling volume I	4 5.5	
			Pump connections	M16x1 male	
Temperature value	es		Included in delivery		
Working temperature ra	ange °C	-40 +150	2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connecti M16x1 male)		
Temperature stability °	С	±0.03			
Ambient temperature °	с	+5 +40			
Setting the resolution of display °C	of the temperature	0.1			

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All Benefits



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Precise

PID Temperature control with set control parameters, temperature stability ±0.02...±0.2 °C